CANCER GENETICS AND CYTOGENETICS

Volume 72, Number 1, January 1994

Contents

Lead Article

Analysis of Genotype and Phenotype on the Same Interphase or Mitotic Cell: A Manual of MAC (Morphology Antibody Chromosomes) Methodology — 1
S. Knuutila, S.J. Nylund, M. Wessman, and M.L. Larramendy

Original Articles

Malignant Melanoma: From Subcutaneous Nodule to Brain Metastasis — 16
H.G. Morse, G.E. Moore, L.M. Ortiz, R. Gonzalez, and W.A. Robinson

Trisomy 8 Detection in Ph+ CML Patients Using Conventional Cytogenetic and Interphase Fluorescence In Situ Hybridization Techniques — 24
G. Fugazza, R. Bruzzone, A.M. Dejana, F. Patrone, and M. Sessarego

Genitourinary Tumors in the Families of Children with Renal Tumors — 28
A.L. Hartley, J.M. Birch, V. Blair, A.M. Kelsey, M. Harris, P.H. Morris Jones, and H. Rao Gattamaneni

Non-Hodgkin's Lymphomas with Chromosomal Translocations Involving 3q27 Band and Immunoglobulin Gene Loci: Report of Two Cases — 33
H. Ohno, T. Akasaka, K.-i. Ohmura, T. Nakamura, I. Gohma, M. Masuya, H. Amano, T. Imanaka, and Y.-i. Ohno

Chromosomal Organization of Viral Integration Sites in Human Papillomavirus-Immortalized Human Keratinocyte Cell Lines — 39
D.B. Zimonjic, N.D. Popescu, and J.A. DiPaolo

X and Y Chromosome Loss as Sole Abnormality in Acute Non-lymphocytic Leukemia (ANLL) — 44
C.B. Riske, R. Morgan, S. Ondreyco, and A.A. Sandberg

Cytogenetic and Immunogenotypic Alterations of Blast Crisis Cells in Chronic Myelogenous Leukemia Independently Linked to Immunophenotypic Expression — 48
T. Murakami, K. Ohyashiki, J.H. Ohyashiki, K. Kawakubo, T. Tauchi, S. Nakazawa, N. Kimura, and K. Toyama

Acertainment of Chromosome 7 Gains in Malignant Gliomas by Cytogenetic and RFLP Analyses — 55
M. Josefa Bello, J.M. de Campos, M.E. Kusak, J. Vaquero, J.L. Sarasa, A. Petaña, and J.A. Rey

Involvement of 10q22 and 11q13 in Hibernoma — 59
A.M. Meloni, S.S. Spanier, C.H. Bush, J.F. Stone, and A.A. Sandberg

New Translocations [t(6;15)(p25;q22) and t(6;19)(q16;q13.3)] with t(9;22)(q34;q11) in a Ph-Positive Chronic Myelogenous Leukemia — 65
M.J. Macera, M.A. Sanchez, A.M. Elizalde, S.K. Gogineni, and R.S. Verma

Sequential Cytogenetic Study of Patients after Bone Marrow Transplantation — 68
Z. Zemanová, K. Michalová, J. Musilová, M. Lukášová, and J. Starý

Short Communications

Identification of Complex t(15;17) in APL by FISH — 73
Z. Chen, R. Morgan, J.F. Stone, and A.A. Sandberg

Translocation (8;17)(p21;q21), a Possible Variant of t(15;17), in Acute Promyelocytic Leukemia — 75
I. Miura, T. Nishinari, K. Hashimoto, T. Nimura, S. Miura, and A.B. Miura

Contents continued on next page

Contents continued

Letters to the Editor
Assessing Aneuploidy in Normal Tissues with FISH: Pitfalls and Insights **78**
L.F. Meisner, K. Han, W. Lee, and C.P. Harris

Response to Meisner et al. **79**
R. Naeem and J.A. Fletcher

Erratum **81**

Volume 72, Number 2, February 1994

Contents

Original Articles
Trisomy 12 in Chronic Lymphocytic Leukemia: An Interphase Cytogenetic Study by Fluorescence In Situ Hybridization **83**
Y.L. Kwong, J. Pang, L.M. Ching, H.W. Liu, R.H.S. Liang, and L.C. Chan

Cytogenetic Triclonality in Acute Myeloid Leukemia: A Morphologic, Immunologic and In Situ Hybridization Study **86**
Y.L. Kwong, C.K. Lam, A.Y.Y. Chan, A.K.W. Lie, and L.C. Chan

Inversion (14)(q11q32) in Childhood T-Cell Acute Lymphoblastic Leukemia **92**
Y.L. Kwong, M.K. Shing, T.M. Wan, P.M.P. Yuen, A.Y.Y. Chan, K.F. Wong, and L.C. Chan

Granulomatous Slack Skin: Cytogenetic and Molecular Analyses **96**
P. Grammatico, L. Balus, S. Scarpa, L. Varesco, C. Di Rosa, B. Grammatico, and G. Del Porto

Tetrasomy 8 as a Clonal Anomaly in Myeloid Neoplasias **101**
U. Trautmann, M. Gramatzki, M. Krauß, A. Friz, T. Liehr, and E. Gebhart

Translocation (12;22)(p13;q12) as Sole Karyotypic Abnormality in a Patient with Nonlymphocitic Leukemia **105**
A. Geurts van Kessel, F. Stellink, J. van Gaal, W. van de Klundert, A. Siepman, and H.R. Oosten

Cytogenetic Findings in Primary Uveal Melanoma **109**
A.D. Singh, L. Boghosian-Sell, K.K. Wary, C.L. Shields, P. De Potter, L.A. Donoso, J.A. Shields, and L.A. Cannizzaro

Karyotypic Analysis of a Heterogeneous Human Transitional Cell Carcinoma of the Bladder **116**
J.L. Brown, R. Lukeis, Z. Palividis, J. Wass, D. Raghavan, and P.J. Russell

Cytogenetic Analysis of a Leiomyosarcoma of the Kidney **126**
E. van den Berg, W.M. Molenaar, J. van Echten, A. Dam, H.J.A. Mensink, and B. de Jong

Analysis of Oncogene Expression in Primary Human Gliomas: Evidence for Increased Expression of the ros Oncogene **130**
D. Watkins, F. Dion, M. Poisson, J.-Y. Delattre, and G.A. Rouleau

Cytogenetic Studies of Four Hemangiopericytomas **137**
S.E. Herath, P.G. Stalboerger, R.J. Dahl, J.E. Parisi, and R.B. Jenkins

Aberrations of Chromosome 22 and Polysomy of Chromosome 8 as Non-Random Changes in Clear Cell Sarcoma **141**
J. Limon, M. Debiec-Rychter, B. Nedoszytko, P.P. Liberski, M. Babińska, and A. Szadowska

Chromosome Abnormalities in Adenolipomas of the Breast: Karyotypic Evidence that the Mesenchymal Component Constitutes the Neoplastic Parenchyma **146**
C.U. Dietrich, N. Pandis, J.A. Andersen, and S. Heim

A New Cytogenetic Finding in an Epithelioid Sarcoma, t(8;22)(q22;q11) 151
J.C. Cordoba, D.M. Parham, W.H. Meyer, and E.C. Douglass

Short Communications
No Rearrangements of the *CHOP* Gene in Malignant Fibrous Histiocytoma 155
M. Nilbert, N. Mandahl, P. Åman, A. Rydholm, and F. Mitelman

Double Minute Chromosomes in an Invasive Adenocarcinoma of the Prostate 157
J. Milašin and S. Mićić

Letters to the Editor
Nonrandom Sex Chromosome Changes in Brain Tumors 160
F. Hecht, B.K. Hecht, M. Chatel, P. Gaudray, and C. Turc-Carel

An Improved Procedure for Chromosome Preparations from Solid Tumors 161
D.B. Zimonjic and N.C. Popescu

Erratum 163

Volume 73, Number 1, March 1994

Contents

Lead Article
Long Term Survival in Acute Myelogenous Leukemia: A Second Follow-up of the Fourth International Workshop on Chromosomes in Leukemia 1
G.J. Swansbury, S.D. Lawler, G. Alimena, D. Arthur, R. Berger, H. Van Den Berghe, C.D. Bloomfield, A. De la Chapelle, G. Dewald, O.M. Garson, A. Hagemeijer, F. Mitelman, J.D. Rowley, and M. Sakurai

Original Articles
Nonrandom Changes of Chromosome 10 in Bladder Cancer: Detection by FISH to Interphase Nuclei 8
M.-R. Wang, B. Perissel, J. Taillandier, J.-L. Kémény, Y. Fonck, A. Lautier, M. Benkhalifa, and P. Malet

Molecular Characterization of a Recurring Complex Chromosomal Translocation in Two Human Extragonadal Germ Cell Tumors 11
R.J. Sinke, D. Olde Weghuis, R.F. Suijkerbuijk, A. Tanigami, Y. Nakamura, C. Larsson, G. Weber, B. de Jong, J.W. Oosterhuis, W.M. Molenaar, and A. Geurts van Kessel

Demonstration of i(17q) in Metaphase and Interphase of Malignant Hematopoietic Cells by Fluorescence in Situ Hybridization 17
G. Shi, H.-J. Weh, D.K. Hossfeld

Chromosome Instability in Lymphocytes from Patients Affected by or Genetically Predisposed to Colorectal Cancer 23
F. Richard, M. Muleris, and B. Dutrillaux

Clonal Chromosome Abnormalities in 54 Cases of Ovarian Carcinoma 33
F.H. Thompson, J. Emerson, D. Alberts, Y. Liu, X.-Y. Guan, A. Burgess, S. Fox, R. Taetle, R. Weinstein, R. Makar, D. Powell, and J. Trent

Chromosome Studies in 70 Brain Tumors With Special Attention to Sex Chromosome Loss and Single Autosomal Trisomy 46
K. Yamada, M. Kasama, T. Kondo, N. Shinoura, and M. Yoshioka

Competitive In Situ Hybridization in a Mediastinal Germ Cell Tumor 53
M. Sayed Aly, P. Dal Cin, P. Jiskoot, G. Deneffe, P. Marynen, and H. Van Den Berghe

Variant Philadelphia Chromosome Translocations are Frequently Associated with Additional Structural Abnormalities 57
M. Sessarego, G. Fugazza, R. Bruzzone, and F. Patrone

Contents continued on next page

Contents continued

Human Ovarian Tumors of Epithelial Origin Express PDGF In Vitro and In Vivo **60**
M.A. Versnel, M. Haarbrink, A.W. Langerak, A.J.M. de Laat, A. Hagemeijer, T.H. van der Kwast, L.A.M. van den Berg-Bakker, and P.I. Schrier

Cytogenetic Studies in Patients with Richter's Syndrome **65**
J. Hebert, P. Jonveaux, M.-F. d'Agay, and R. Berger

Clinical and Biologic Characteristics of CD7⁺ Acute Myeloid Leukemia: Our Experience and Literature Review **69**
T. Shimamoto, J. Ohyashiki, K. Ohyashiki, K. Kawakubo, Y. Inatomi, H. Fujieda, S. Nakawaza, N. Kimura, J. Miyauchi, and K. Toyama

Trisomy 18 as the First Chromosome Abnormality in a Medullary Breast Cancer **75**
J. Bullerdiek, U. Bonk, B. Staats, E. Leuschner, G. Gohla, T. Ebel, and S. Bartnitzke

Short Communications
Acute Myeloid Leukemia (AML-M1) with Multiple Trisomies and t(8;21)(q22;q22) **79**
M. Köhler, B. Johansson, J. Ludvigsson, P. Aman, S. Heim, and F. Mitelman

A Growing Relationship Between Genomic Imprinting and Tumorigenesis **82**
A. Hochberg, B. Gonik, R. Goshen, and N. de Groot

Letters to the Editor
Isochromosome 8q: A New Recurring Secondary Anomaly with B-lineage Acute Lymphoid Leukemia **84**
H. Mossafa, J.L. Huret, F. Brizard, A. Brizard, F. Guilhot, M. Lessard, and J. Tanzer

t(1;19) in a M4-ANLL **86**
A.M. Vagner-Capodano, M. Mozziconacci, H. Zattara-Cannoni, A. Guitard, I. Thuret, and G. Michel

Volume 73, Number 2, April 1994

Contents

Lead Articles
Distinct X.p11.2 Breakpoint Regions in Synovial Sarcoma Revealed by Metaphase and Interphase FISH: Relationship to Histologic Subtypes **89**
B. de Leeuw, R.F. Suijkerbuijk, D. Olde Weghuis, A.M. Meloni, G. Stenman, L. G. Kindblom, M. Balemans, E. van den Berg, W.A. Molenaar, A.A. Sandberg, and A. Geurts van Kessel

Genetic Origin of Malignant Trophoblastic Neoplasms **95**
T. Arima, T. Imamura, S. Amada, M. Tsuneyoshi, and N. Wake

Original Articles
Double Target In Situ Hybridization Applied to the Study of Numerical Aberrations in Childhood Acute Lymphoblastic Leukemia **103**
S. Tosi, J. Ritterbach, O. Maglia, J. Harbott, H. Riehm, G. Masera, A. Biondi, and F. Lampert

The Distal Region of the Long Arm of Human Chromosome 1 Carries Tumor Suppressor Activity for a Human Fibrosarcoma Line **109**
K.G. Klein and N.P. Bouck

Molecular Analysis of Genomic Abnormalities in Human Gliomas **122**
M. Bello, J.M. de Campos, M.E. Kusak, J. Vaquero, J.L. Sarasa, A. Pestaña, and J.A. Rey

Detection of Minimal Residual Disease After Sex-Mismatch Bone Marrow Transplantation in Chronic Myelogenous Leukemia by Fluorescence In Situ Hybridization **130**
A. Nagler, S. Slavin, S. Yarkoni, M. Fejgin, and A. Amiel

Interphase Cytogenetics in Paraffin-Embedded Sections from Renal Cortical Neoplasms: Correlation with Cytogenetic and Flow Cytometric DNA Ploidy Analyses 134
A.K. El-Naggar, H.D. van Dekken, L.G. Ensign, and S. Pathak

Cytogenetic and FISH Analysis of Endometrial Carcinoma 142
N.K. Shah, J.L. Currie, N. Rosenshein, J. Campbell, P. Long, F. Abbas, and C.A. Griffin

Clonal Chromosome Aberrations in Three Sacral Chordomas 147
F. Mertens, A. Kreicbergs, A. Rydholm, H. Willén, B. Carlén, F. Mitelman, and N. Mandahl

Cytogenetic Findings in Two Basal Cell Carcinomas 152
R.S. Kawasaki-Oyama, F.S. André, L.F. Caldeira, W.H. Castilho, J.A.L. Gasques, A.R. Bozola, J.A. Thomé, and E.H. Tajara

Acute Myeloblastic Leukemia with a Pericentric Inversion of Chromosome 6 in a Child with Down Syndrome 157
S. Shekhter-Levin, J. Mirro, L. Penchansky, M.E. Sherer, N. Wald, and S.M. Gollin

Elevated Chromosome Aberration Frequency After X-ray Exposure in Cultured Fibroblasts Derived from Patients with Porokeratosis 161
T. Takeshita, M. Higurashi, C. Ariizumi-Shibusawa, K. Shimizu, S. Iijima, Z. Yamagata, A. Asaka, K. Morimoto, Y. Ishibashi, and F. Otsuka

Short Communications

Detection of bcl Rearrangements in B-CLL by Fluorescence In Situ Hybridization 165
A. Amiel, M. Lishner, A. Lalkin, E. Gaber, Y. Manor, M. Fejgin, S. Yarkoni, and M. Ravid

Complex Karyotype Including 14q+ Marker in a Case of Waldenström's Macroglobulinemia 169
J.C. Cigudosa, M.J. Calasanz, C. Pérez, J. Rifón, B. Cuesta, and A. Gullon

Balanced 7;12 Translocation Associated with Minimally Differentiated Acute Myeloid Leukemia 171
A.L. Billson, M. Latham, S. Jalihal, K. Martin, and D.A. Walker

Volume 74, Number 1, May 1994

Contents

Lead Article

Identification of Chromosomal Structural Alterations in Human Ovarian Carcinoma Cells Using Combined GTG-Banding and Repetitive Fluorescence In Situ Hybridization (FISH) 1
J. Xu and N. Wang

Original Articles

5q-Chromosome: Evidence for Complex Interstitial Breaks in a Case of Refractory Anemia with Excess Blasts 8
L. Nagarajan, L. Zhao, X. Lu, J.A. Warrington, J.J. Wasmuth, M. Siciliano, A.B. Deisseroth, and J.C. Liang

Interphase Molecular Cytogenetics of Ewing's Sarcoma and Peripheral Neuroepithelioma t(11;22) with Flanking and Overlapping Cosmid Probes 13
C. Desmaze, J. Zucman, O. Delattre, T. Melot, G. Thomas, and A. Aurias

Comparison of Chromosome Aberrations in Leiomyoma and Leiomyosarcoma Using FISH on Archival Tissues 19
K. Han, W. Lee, C.P. Harris, R.C. Simsiman, K. Lee, C. Kang, and L. Meisner

Contents continued on next page

Cerebral Germ Cell Tumor and XXY Karyotype 25
R. Casalone, R. Righi, P. Granata, P. Portentoso, E. Minelli, E. Meroni, C.L. Solero, and A. Allegranza

Cytogenetic Abnormalities in Two Cases of Neuroblastoma 30
R. Lo, E. Perlman, A.L. Hawkins, R. Hayashi, D.S. Wechsler, A.T. Look, and C.A. Griffin

Unbalanced 1;7 Translocation in Myelodysplastic Syndrome following Treatment of Acute Myeloblastic Leukemia with an 8;21 Translocation 35
K. Hamamoto, A. Hashimoto-Ninomiya, Y. Kishimoto, T. Kimura, H. Fujitake, K. Yasunaga, and S. Horiike

Cytogenetic Studies, Ras Mutation, and Clinical Characteristics in Primary Myelodysplastic Syndrome—A Study on 68 Chinese Patients in Taiwan 40
H.-F. Tien, C.-H. Wang, S.-M. Chuang, J.-M. Chow, F.-Y. Lee, M.-C. Liu, Y.-C. Chen, M.-C. Shen, D.-T. Lin, and K.-H. Lin

A Case of Acute Monocytic Leukemia with t(11;17) Involving a Rearrangement of MLL-1 and a Region Proximal to the RARA Gene 50
B.R. Reeves, H. Kempski, K. Jani, J. Borrow, K. Howe, E. Solomon, L. Kearney, and F. Cotter

Cytogenetics and Origin of Pediatric Germ Cell Tumors 54
L. Hoffner, R. Deka, A. Chakravarti, and U. Surti

Granulocytic Sarcoma Showing Chromosomal Changes Other than the t(8;21) 59
P. Hiemann, E. Vamos, A. Ferster, and E. Sariban

Trisomy 19 as the Sole Chromosomal Anomaly in Hematologic Neoplasms 62
B. Johansson, R. Billström, N. Mauritzson, and F. Mitelman

Tetrasomy 21 in Megakaryoblastic Leukemia 66
L. Potocki, P.L. Townes, B.A. Woda, S.K. Rao, J.P. Shearin, and M.R. Schwenn

Letters to the Editor
Trisomy 14 in a Case of Sideroblastic Refractory Anemia 71
E. Arranz, J. Benitez, and E. Prieto

Spontaneous Expression of the Chromosome Fragile Site at 10q23 in Leiomyoma 73
Y.Y. Ozisik, A.M. Meloni, J.F. Stone, A.A. Sandberg, and U. Surti

Volume 74, Number 2, June 1994

Contents

Lead Article
Recurrent Rearrangements of 11q14-22 in Mucoepidermoid Carcinoma 77
A. Nordkvist, H. Gustafsson, M. Juberg-Ode, and G. Stenman

Original Articles
Translocation (3;21) (q26;q22) in Treatment-Related Acute Leukemia Secondary to Acute Promyelocytic Leukemia 84
H. Miyazaki, T. Ino, R. Sobue, H. Kojima, M. Wakita, T. Nomura, M. Tuzuki, and M. Hirano

A New B-Cell Line Showing a Complex Translocation (8;14;18) and BCL2 Rearrangement 87
R.B.C. van Ooteghem, E.M.E. Smit, A. Beishuizen, A.C. Lambrechts, M.v.d. Blij-Philipsen, T.J. Smilde, A. Hagemeijer

Dosage and Allelic Restriction Fragment Studies and PCR Analysis of the H-ras Locus in Giant Cell Tumor of Bone 95
G.A. Dahir, C.L. Vnencak-Jones, H.S. Schwartz, and M.G. Butler

Cytogenetic Analysis of Murine Cell Lines from Diethylstilbestrol-Induced Uterine Endometrial Adenocarcinomas 99
S. Endo, S. Kodama, R. Newbold, J. McLachlan, and J.C. Barrett

Cytogenetic Study of 30 Colorectal Adenomas 104
M. Muleris, B. Zafrani, P. Validire, J. Girodet, R.-J. Salmon, and B. Dutrillaux

Rapid Method for Obtaining High-Quality Chromosome Banding in the Study of Hematopoietic Neoplasia 109
A. Novak, M. Kruskic, M. Ludoski, and V. Jurukovski

Image Analysis in Multiple Myeloma at Diagnosis: Correlation with Cytogenetic Study 115
M. Zandecki, F. Bernardi, J.L. Laï, T. Facon, V. Izydorczyk, F. Bauters, and A. Cosson

The Origin of Isochromosomes and their Significance in Tumorigenesis of Human Lung Cancer 120
S.-B. Fu, P. Li, X.-L. Feng, C.-X. Liu, Q.-Z. Liu

The Lack of V-SRC Involvement in Tumorigenicity of Marmoset Cells Transformed In Vitro with Rous Sarcoma Virus 123
B. Marczynska and N. Khoobyarian

Chromosome Aberrations in Four Ependymomas 132
J.R. Sawyer, G. Sammartino, M. Husain, F.A. Boop, and W.M. Chadduck

P53 Mutations and Microsatellite Analysis of Loss of Heterozygosity in Malignant Gliomas 139
M. Tenan, B.M. Colombo, B. Pollo, L. Cajola, G. Broggi, and G. Finocchiaro

Short Communications

Characterization of a New Case of Trisomy 8 in Acute Lymphoblastic Leukemia 144
A. Angioni, C. Ruscio, L. Giovannelli, C. Miano, D. Rosati, P. Balloni, A. De Laurenzi, and C. Mecucci

Severe Hypodiploidy with Karyotype Instability in a Case of Acute Myeloid Leukemia 147
D.R. Betts, O. Baugh, and B. Gibbons

Trisomy 6 as the Sole Chromosome Abnormality in Myeloid Disorders 150
P. Jonveaux, P. Fenaux, and R. Berger

Derivative Chromosome, der(17;22) (q10;q10), in Two Carcinomas of the Cervix Uteri and One of the Skin 153
N.B. Atkin and M.C. Baker

Letters to the Editor

Chronic Myeloid Leukemia with Philadelphia Chromosome and t(21;22): A Follow-Up 156
P.H. Pinkerton, J.S. Senn, and S. Kamel-Reid

Expression of Myeloperoxidase mRNA in Newly Established Monocytic and Myelocytic Human Cell Lines 157
R. Kawaguchi, J.-I. Yoshioka, K. Hikiji, T. Nakagawa, S. Matozaki, Y. Hosokawa, and M. Totani

Volume 75, Number 1, July 1, 1994

Contents

Lead Article

Genetic Alterations of Chromosome 17 in Human Breast Carcinoma Studied by Fluorescence In Situ Hybridization and Molecular DNA Techniques 1
C. Rosenberg, T.I. Andersen, J.M. Nesland, M.E. Lier, A. Brøgger, and A.-L. Børresen

Contents continued on next page

Original Articles

Presenting Characteristics of Trisomy 8 as the Primary Cytogenetic Abnormality Associated with Childhood Acute Lymphoblastic Leukemia: A Pediatric Oncology Group (POG) Study (8600/8493) **6**
M.J. Pettenati, N. Rao, M. Wofford, J.J. Shuster, D.J. Pullen, M.P. Ling, C.P. Steuber, and A.J. Carroll

Involvement of 11p15 and 3q21q26 in Therapy-Related Myeloid Leukemia (t-ML) in Children: Case Reports and Review of the Literature **11**
B. Stark, M. Jeison, M. Shohat, Y. Goshen, R. Vogel, I.J. Cohen, I. Yaniv, C. Kaplinsky, and R. Zaizov

Cytogenetic and Molecular Cytogenetic Analysis of Sacral Chordoma **23**
J.A. Bridge, D. Pickering, and J.R. Neff

Cytogenetic Studies in Venous Tissue from Patients with Varicose Veins **26**
S. Scappaticci, E. Capra, M. Cortinovis, R. Cortinovis, E. Arbustini, M. Diegoli, and M. Fraccaro

Characterization of a Rearrangement in the c-MYB Promoter in the Acute Lymphoblastic Leukemia Cell Line CCRF-CEM **31**
S.M. Jacobs, K.M. Gorse, S.J. Kennedy, and E.H. Westin

Evaluation of 20 Archival Prostate Tumor Specimens by Fluorescence In Situ Hybridization (FISH) **40**
A.R. Brothman, M.J. Watson, X.L. Zhu, B.J. Williams, and L.R. Rohr

P53 Alterations in Gastric Carcinoma: A Study of 56 Primary Tumors and 204 Nodal Metastases **45**
R. Seruca, L. David, S. Castedo, I. Veiga, A.-L. Børresen, and M. Sobrinho-Simões

Function-dependent Cooperation Between Oncogene Activation and Nonrandom Chromosome Change During Tumorigenic Conversion of Syrian Hamster Cells **51**
K. Suzuki, J. Miyoshi, and M. Watanabe

Translocation (16;21)(p11;q22) in Acute Nonlymphocytic Leukemia **60**
K. Okada, M. Takeichi, H. Uchida, T. Shirota, N. Sakai, and H. Ito

Short Communications

Secondary Chronic Myelomonocytic Leukemia with t(9;11) in a Child **64**
R. George, A.D.J. Pearson, J. Evans, and M.M. Reid

Apoptosis is Not Involved in the Hypersensitivity of Fanconi Anemia Cells to Mitomycin C **67**
J.-P. Rey, R. Scott, and H. Müller

Letters to the Editor

A New Case of t(14;19)(q32;q13) in a Patient with Follicular Lymphoma in Leukemic Phase **72**
F. Solé, S. Woessner, L. Florensa, A. Perez-Losada, C. Bonet, and C. Besses

Chromosomal Evolution in a Merkel Cell Carcinoma **74**
B. Schlegelberger, H. Bartels, and W. Sterry

Volume 75, Number 2, July 15, 1993

Contents

Lead Article

Increasing Complexity of the Karyotype in 50 Human Gliomas: Progressive Evolution and De Novo Occurrence of Cytogenetic Alterations **77**
I. Magnani, S. Guerneri, B. Pollo, N. Cirenei, B.M. Colombo, G. Broggi, C. Galli, O. Bugiani, S. DiDonato, G. Finocchiaro, and A.M. Fuhrman Conti

Original Articles

Chromosome Analysis of Parallel Short-Term Cultures from Four Testicular Germ-Cell Tumors **90**
J.M. Parrington, L.F. West, and E. Heyderman

t(1;7)(p36;q32): A New Recurring Abnormality in Primary Myelodysplastic Syndrome **103**
D.T. Ştefănescu, D. Colită, S. Nicoară, and G. Călin

Early Blastic Transformation of a Myeloproliferative Disorder with t(8;21) and Progressive Aberrations of Chromosome 8 **106**
A. Fasanaro, G. Paone, I. Silvestri, V. Marottoli, R. Cimino, and F. Ferrara

Chromosomal Aberrations in Two Adrenocortical Tumors, One with a Rearrangement at 11p15 **111**
M.E. Herrmann, L.L. Rydstedt, G.B. Talpos, S. Ratner, S.R. Wolman, and P.A. Lalley

Trisomy 5 as the Sole Abnormality in Acute Lymphoblastic Leukemia: A Second Case and Review **117**
P. Nagesh Rao, D. Buss, S. Brown, M. O'Connor, D. Hurd, and M.J. Pettenati

Detection of Premalignant Stages in Cervical Smears with a Biotinylated Probe for Chromosome 1 **120**
P. Segers, S. Haesen, J.-J. Amy, Ph. De Sutter, P. Van Dam, and M. Kirsch-Volders

Cytogenetic Studies in Five Patients with the Sézary Syndrome **130**
F. Solé, S. Woessner, T. Vallespi, A. Pérez Losada, L. Florensa, D. Irriguible, J. Vila, and J. Sans-Sabrafen

Cytogenetic Findings in Seven Lacrimal Gland Neoplasms **133**
M. Hrynchak, V. White, K. Berean, and D. Horsman

Variant t(8;21) Rearrangements in Acute Myeloblastic Leukemia of Childhood **139**
M. Gallego, A.J. Carroll, G.S. Gad, A. Pappo, D. Head, F. Behm, Y. Ravindranath, and S.C. Raimondi

Short Communications

Cytogenetic Studies of Five Gastric Carcinomas Metastatic to the Pleura **145**
M. Inmaculada Trigo, M. Victoria San Martín, M. Angeles Novales, and J. Maraví

Paracentric Inversion of Chromosome 3 (q21q26) in a Patient with Chronic Myelomonocytic Leukemia and a Normal Platelet Count **147**
A.P. Rabinowitz

Cytogenetic Findings in a New Case of Adenoid Cystic Carcinoma Arising in Sphenoidal Sinus **150**
C. López-Ginés, M. Cerdá-Nicolás, and A. Llombart-Bosch

Possible Involvement of the IL4 Gene in Waldenström's Macroglobulinemia **153**
F. Caradonna, G. Barbata, G. Granata, and P. Carbone

Letters to the Editor

Translocation (2;17) in Recurrent Dermatofibrosarcoma Protuberans **156**
J. Sinovic and J.A. Bridge

Unbalanced t(1;16) as the Sole Karyotypic Abnormality in a Breast Carcinoma and its Lymph Node Metastasis **158**
N. Pandis, G. Bardi, Y. Jin, B. Johansson, C. Dietrich, J.A. Andersen, N. Mandahl, F. Mitelman, and S. Heim

Contents continued on next page

Volume 76, Number 1, August 1994

Contents

Lead Article

Supernumerary Ring Chromosomes Containing Chromosome 17 Sequences: A Specific Feature of Dermatofibrosarcoma Protuberans? **1**
F. Pedeutour, J.-M. Coindre, G. Sozzi, G. Nicolo, A. Leroux, S. Toma, M. Miozzo, C. Bouchot, F. Hecht, N. Ayraud, and C. Turc-Carel

Original Articles

Two Cases of t(1;16)(p11;p11) in Multiple Myeloma: Confirmation by Chromosome Painting **10**
M. Flactif, J.L. Laï, M. Zandecki, F. Bernardi, N. Trillot, F. Bauters, and T. Facon

Abnormal Karyotypes in Three Carcinomas of the Gallbladder **15**
G. Bardi, L. Gorunova, J. Limon, B. Nedoszytko, B. Johansson, N. Pandis, N. Mandahl, E. Bak-Jensen, Å. Andrén-Sandberg, J. Rys, A. Niezabitowski, F. Mitelman, and S. Heim

ERG Gene Is Translocated in an Ewing's Sarcoma Cell Line **19**
T. Dunn, L. Praissman, N. Hagag, and M.V. Viola

Loss of Chromosome 8p Sequences in Human Breast Carcinoma Cell Lines **23**
M.J. Pykett, M.E. Murphy, P.R. Harnish, M. Muenke, J. Marks, and D.L. George

Cytogenetic Characterization of a Periampullary Adenocarcinoma of the Pancreas, its Liver Metastasis, and a Cell Line Established from the Metastasis in a Patient with Gardner's Syndrome **29**
G. Bardi, P. Åman, B. Johansson, N. Pandis, N. Mandahl, E. Bak-Jensen, A. Björkman, H.O. Sjögren, Å. Andrén-Sandberg, F. Mitelman, and S. Heim

Astrocytoma with a Unique Telomere Association **33**
K.J. Harrison, E. Neumann, D.K. Kalousek, M.G. Norman, S. Masui, and K. Harrison

Chromosomal and In Vitro Culture Studies in a Case of Primary Plasma Cell Leukemia **36**
A. Pérez Losada, S. Woessner, F. Solé, L. Florensa, and C. Bonet

Potential Diagnostic Implications of Breakpoints in the Long Arm of Chromosome 8 in Lipoblastoma **39**
J.R. Sawyer, E.A. Parsons, M.L. Crowson, S. Smith, S. Erickson, and J.M. Bell

Comparative Study of Radiation-induced G2 Phase Delay and Chromatid Damage in Families with Ataxia-Telangiectasia **43**
P. Chen, Á. Farrell, K. Hobson, A. Girjes, and M. Lavin

No Association between c-*myc* Amplification and TP53 Mutation in Sarcoma Tumorigenesis **47**
J.S. Castresana, C. Barrios, L. Gómez, and A. Kreicbergs

Translocation (3;21)(q26;q22) in Therapy-Related Myelodysplasia Following Drugs Targeting DNA-Topoisomerase II Combined with Alkylating Agents, and in Myeloproliferative Disorders Undergoing Spontaneous Leukemic Transformation **50**
J. Pedersen-Bjergaard, B. Johansson, and P. Philip

i(5p) and del(6q) are Nonrandom Abnormalities in Carcinoma Cervix Uteri: Cytogenetics of Two Newly Developed Cell Lines **56**
A.B. Mitra, P.H. Rao, and M. Pratap

Detection of Minimal Residual Disease State in Chronic Myelogenous Leukemia Patients Using Fluorescence In Situ Hybridization **59**
A. Amiel, S. Yarkoni, S. Slavin, R. Or, H. Lorberboum-Galski, M. Fejgin, and A. Nagler

Genetic Mechanism of Leukemia Predisposition in a Family with 7 Cases of Acute Myeloid Leukemia **65**
H. Li-zhen, L. Lian-huang, and C. Zhi-zhe

Short Communications
Loss of Y Chromosome: An Age-Related Event or a Cytogenetic Marker of a Malignant Clone? 70
D. Abeliovich, O. Yehuda, S. Ben-Neriah, and R. Or

Translocation 8;21 Associated with Acute Nonlymphocytic Leukemia in a Down Syndrome Child 72
E. Balogh, É. Oláh, and K. Hunyadi

Announcements 75

Volume 76, Number 2, September 1994

Contents

Lead Article
Interrelationship between Methodological Choices and Conceptual Models in Solid Tumor Cytogenetics 77
N. Pandis, G. Bardi, and S. Heim

Original Articles
A Cytogenetic Study of 19 Recurrent Gliomas 85
E. Pruchon, L. Chauveinc, L. Sabatier, A.-M. Dutrillaux, M. Ricoul, J.-Y. Delattre, F. Vega, M. Poisson, F. Hor, and B. Dutrillaux

Application of Scanning Force Microscopy to Chromosome Analysis 93
T.J. McMaster, T. Hickish, T. Min, D. Cunningham, and M.J. Miles

Trisomy 5 as the Sole Chromosomal Abnormality in a Primary Mucoepidermoid Carcinoma of the Minor Salivary Gland 96
A.K. El-Naggar, M. Lovell, A. Killary, and J.G. Batsakis

Cytogenetics as a Tool in the Histologic Subclassification of Chondrosarcomas 100
T. Dijkhuizen, E.v.d. Berg, W.M. Molenaar, J.W. Oosterhuis, A. Dam, J. Wiersema, H.S. Koops, and B. de Jong

Evidence for a Second Tumor Suppressor Gene on 17p Linked to High S-Phase Index in Primary Human Breast Carcinomas 106
G.R. Merlo, T. Venesio, A. Bernardi, C.S. Cropp, F. Diella, A.P.M. Cappa, R. Callahan, and D.S. Liscia

Phenotype Variants, Malignancy, and Additional Copies of 6p in Retinoblastoma 112
J. Cano, O. Oliveros, and E. Yunis

Biphenotypic Leukemia with t(9;11)(p22;p15) 116
S.Y. Ha and L.C. Chan

Cytogenetics and Immunophenotypes of Childhood Acute Lymphoblastic Leukemia in Hong Kong 118
L.C. Chan, S.Y. Ha, L.M. Ching, C.P. Lee, Y.L. Lau, P. Yuen, and N.K. Leung

Embryonal Rhabdomyosarcoma with 92,XXYY,+dmin and Evidence of Spontaneous Cell Fusion 125
I. Petković, M. Dominis, M. Nakić, and M. Cepulić

Cytogenetic Observations in 13 Cystadenolymphomas (Warthin's Tumors) 129
A. Nordkvist, J. Mark, R. Dahlenfors, M. Bende, and G. Stenman

Burkitt Lymphoma with a Duplication of der(8)t(2;8) 136
Y. Vázquez-Mazariego, P. Cabello, J.M. García-Sagredo, A. López-Yarto, I. Vallcorba, M. Resino, R. Muñoz, I. Pérez, M. Mayayo, M.T. Ferro, and C. San Román

"Jumping" Translocation of 9q in a Case of Follicular Lymphoma 140
I. Wlodarska, C. Mecucci, C. De Wolf-Peeters, G. Verhoef, H.U. Weier, J.J. Cassiman, and H. Van Den Berghe

Contents continued on next page

Contents continued

Short Communications

Fibroadenoma of the Breast Showing a Translocation (6;14), a Ring Chromosome and Two Markers Involving Parts of Chromosome 11 **145**
E. Leuschner, K. Meyer-Bolte, J. Caselitz, S. Bartnitzke, and J. Bullerdiek

Lack of Germ-Line Mutations in the p53 Gene Exons 4 to 8 in Patients with Late-Onset Second Malignant Neoplasms **148**
P. Lalle, C. Moyret, and Y.-J. Bignon

Extramedullary Blastic Transformation in a Child with Adult Chronic Myelocytic Leukemia **151**
P.J. Van Dijken, M. Niazi, and R.H. Al-Asiri

Clonal Chromosome Aberrations in a Case of Nodular Fasciitis **154**
J.R. Sawyer, G. Sammartino, G.F. Baker, and J.M. Bell

Letters to the Editor

Trisomy 2 Found in Proliferative Myositis Cultured Cells **157**
Y. Ohjimi, H. Iwasaki, M. Ishiguro, T. Isayama, and Y. Kaneko

Phenotypic Variability in Trisomy 8 Mosaicism Is Consistent with the Hypothesis of Meiotic Origin of Trisomic Neoplasms **158**
H.F.L. Mark

A Derivative Chromosome 14 Resulting in Partial Trisomy of Chromosome 12 in B-Cell Chronic Lymphocytic Leukemia **159**
A.P. McManus, K.E.M. Bailie, H. Jess, and Z.R. Desai

Erratum **161**

Volume 77, Number 1, October 1, 1994

Contents

Lead Article

Cytogenetic and Fluorescence In Situ Hybridization Studies on Sporadic and Hereditary Tumors Associated with von Hippel-Lindau Syndrome (VHL) **1**
H.-J.H. Decker, S.M. Klauck, J.B. Lawrence, J. McNeil, D. Smith, R.M. Gemmill, A.A. Sandberg, H.H.P. Neumann, B. Simon, J. Green, and B.R. Seizinger

Original Articles

Reduced Induction of P53 Protein by γ-Irradiation in Ataxia Telangiectasia Cells without Constitutional Mutations in Exons 5, 6, 7, and 8 of the p53 Gene **14**
N. Nasrin, M. Kunhi, M. Einspenner, S. Al-Sedairy, and M. Hannan

Two Human Breast Cancer Cell Lines Showing Decreasing Telomeric Repeat Length During Early In Vitro Passaging **19**
P. Rogalla, B. Kazmierczak, C. Rohen, G. Trams, S. Bartnitzke, and J. Bullerdiek

Cytogenetic Heterogeneity in a Clear Cell Hidradenoma of the Skin **26**
L. Gorunova, F. Mertens, N. Mandahl, N. Jonsson, B. Persson, S. Heim, and F. Mitelman

Involvement of Erythrocytic and Granulomonocytic Lineages by Trisomy 11 in Two Cases of Acute Myelomonocytic Leukemia with Trilineage Myelodysplasia: An Interphase Cytogenetic Study **33**
A. Cuneo, M. Balboni, M.G. Carli, R. Bigoni, G. Roberti, I. Pazzi, R. Previati, and G. Castoldi

High Incidence of Monosomy 18 in Lymphoid Malignancies That Have Bone Marrow and Peripheral Blood Involvement **39**
A. Younes, D. Jendiroba, H. Engel, S. Escudier, R. Katz, M.A. Rodriguez, D. Hill, F. Cabanillas, and M. Andreeff

Complex Karyotypic Alterations in an Endometrial Stromal Sarcoma **45**
M. Hrynchak, D. Horsman, C. Salski, K. Berean, and J.L. Benedet

Presence or Absence of Trisomy 11 is Correlated with Histologic Subtype in Congenital Mesoblastic Nephroma 50
J.T. Mascarello, T.R. Cajulis, H.F. Krous, and P.M. Carpenter

Chromosome Analysis of Nine Endocrine Neoplasms of the Pancreas 55
P.P. Long, R.H. Hruban, R. Lo, C.J. Yeo, L.A. Morsberger, and C.A. Griffin

Cytogenetic Analysis of 11 Squamous Cell Carcinomas of the Head and Neck 60
P.H. Rao, C. Sreekantaiah, S.P. Schantz, and R.S.K. Chaganti

Translocations in 7q22 Define a Critical Region in Uterine Leiomyomata 65
M.S. Sargent, S. Weremowicz, M.S. Rein, and C.C. Morton

Cytogenetic Findings in 21 Malignant Melanomas 69
Y.Y. Ozisik, A.M. Meloni, O. Altungoz, A.M. Peier, C. Karakousis, S.P.L. Leong, and A.A. Sandberg

Cytogenetic Study of Two Cases with Lymphoma of Mucosa-Associated Lymphoid Tissue 74
J. Whang-Peng, T. Knutsen, E. Jaffe, M. Raffeld, W.P. Zhao, P. Duffey, and D.L. Longo

Cytogenetic Aberrations in Osteosarcomas: Nonrandom Deletions, Rings, and Double Minute Chromosomes 81
J.A. Fletcher, M.C. Gebhardt, and H.P. Kozakewich

Short Communication
Small Cell Carcinoma of the Ovary Associated with ins(10;5)(p13;q31q13) 89
L.C. Chan, A. Cheung, and D. Cheng

Letter to the Editor
Translocation t(1;21)(q21;p11) with Trisomies X and 1q in a Diffuse Large B-Cell Lymphoma 91
B.R. Gladstone, P.R. Kadam, B. Balsara, R. Gopal, P.M. Parikh, and S.H. Advani

Volume 77, Number 2, October 15, 1994

Contents

Lead Article
Germline and Somatic Abnormalities of Chromosome 7 in Wilms' Tumor 93
H.P. Wilmore, G.F.J. White, R.T. Howell, and K.W. Brown

Original Articles
Fluorescence In Situ Hybridization Analysis Using Cosmid Probes to Define Chromosome 6q Abnormalities in Ovarian Carcinoma Cell Lines 99
M.A. Lastowska, D.M. Lillington, A.N. Shelling, I. Cooke, B. Gibbons, B.D. Young, and T.S. Ganesan

Reciprocal Translocation t(12;13)(p13;q14) in Acute Nonlymphoblastic Leukemia: Report and Cytogenetic Analysis of Two Cases 106
S. Tosi, S. Stilgenbauer, G. Giudici, S. Capalbo, G. Specchia, V. Liso, S. Castagna, E. Lanzi, P. Lichter, and A. Biondi

Refractory Anemia with Excess of Blasts and Isochromosome 12p in a Patient with Primary Mediastinal Germ-Cell Tumor 111
F. Solé, F. Bosch, S. Woessner, A. Pérez-Losada, F. Cervantes, E. Montserrat, L. Florensa, and C. Rozman

Chromosome Aberrations in Fibrous Dysplasia 114
P. Dal Cin, R. Sciot, F. Speleman, I. Samson, G. Laureys, C. De Potter, F. Meire, B. Van Damme, and H. Van Den Berghe

Contents continued on next page

Contents continued

Non-random Numerical Aberrations of Chromosomes 7, 9, and 10 in DNA-Diploid Bladder Cancer 118
H. Matsuyama, U.S.R. Bergerheim, I. Nilsson, Y. Pan, L. Skoog, B. Tribukait, and P. Ekman

Chromosome Abnormalities in Breast Fibroadenomas 125
Y.Y. Ozisik, A.M. Meloni, C.F. Stephenson, A. Peier, G.E. Moore, and A.A. Sandberg

Leukemia, Lymphoma, and Related Disorders in the Families of Children Diagnosed with Wilms' Tumor 129
A.L. Hartley, J.M. Birch, M. Harris, V. Blair, P.H. Morris Jones, H. Rao Gattamaneni, and A.M. Kelsey

Association of 17p Loss with Late-Stage or Refractory Disease in Hemotologic Malignancy 134
J.M. Hawkins, A.V. Moorman, A. Hoffbrand, M. Martineau, F.S. Wright, A.B. Menta, H.G. Prentice, L.M. Secker-Walker

Short Communication
Two Subclones in a Case of Uveal Melanoma: Relevance of Monosomy 3 and Multiplication of Chromosome 8q 144
G. Prescher, N. Bornfeld, and R. Becher

Abstracts
Fourth European Workshop on Cytogenetics and Molecular Genetics of Human Solid Tumors 147
A. Hagemijer and R. Slater, Conference Organizers

Volume 78, Number 1, November 1994

Contents

Original Articles
Detection of i(17q) Chromosome by Fluorescent In Situ Hybridization (FISH) with Interphase Nuclei in Medulloblastoma 1
A.M. Vagner-Capodano, H. Zattara-Cannoni, D. Gambarelli, J.C. Gentet, L. Genitori, G. Lena, N. Graziani, C. Raybaud, M. Choux, and F. Grisoli

Chromosome Derived from Translocation(1;17) Retains Alphoid Sequences of Both Chromosomes Involved 7
G. Fugazza, R. Bruzzone, and M. Sessarego

Appreciation of the Significance of Cytogenetic and FISH Analysis of Bone Marrow in Clinical Oncology 10
Z. Chen, R. Morgan, J.F. Stone, and A.A. Sandberg

Recurrent Chromosome Abnormalities in Peripheral T-Cell Lymphomas 15
B. Schlegelberger, A. Himmler, H. Bartles, R. Kuse, W. Sterry, and W. Grote

B-Cell Acute Lymphoblastic Leukemia with L1 Morphology and Coexistence of t(1;19) and t(14;18) Chromosome Translocations 23
P.A. Kouides, P.D. Phatak, N. Wang, and J.M. Bennett

Multiple Karyotypic Abnormalities in Three Cases of Small Cell Variant of T-Cell Prolymphocytic Leukemia 28
K. Heinonen, E. Mahlamäki, E. Hämäläinen, T. Nousiainen, and I. Mononen

Association of Abnormalities of Chromosome 11 with t(14;18) in Diffuse Non-Hodgkin's Lymphoma 36
R. Lukeis, S. Juneja, L. Tan, J. Matthews, I. Cooper, P. Ironside, and O.M. Garson

Hypomethylated Status, but not RAG-1, is Required for T-Cell Receptor-β-Chain Gene Rearrangement in Acute Leukemia Cells 40
K. Kawakubo, J.H. Ohyashiki, K. Ohyashiki, T. Tauchi, N. Kimura, S. Nakazawa, and K. Toyama

Chromosome Abnormalities in Meningeal Neoplasms: Do They Correlate with Histology? 46
C.A. Griffin, R.H. Hruban, P.P. Long, N. Miller, P. Volz, B. Carson, and H. Brem

Aneuploidy for Chromosome 1 and Overall DNA Content in Benign and Malignant Breast Disease 53
B. Verdoodt, P. Castelain, C. Bourgain, and M. Kirsch-Volders

Telomere Shortening in Leukemic Cells is Related to their Genetic Alterations but not Replicative Capability 64
K. Ohyashiki, J.H. Ohyashiki, T. Fujimura, K. Kawakubo, T. Shimamoto, M. Saito, S. Nakazawa, and K. Toyama

Rearranged p53 Gene with Loss of Normal Allele in a Low-Grade Nonrecurrent Glioma 68
M. Ghosh, A. Dinda, P. Chattopadhyay, C. Sarkar, S. Bhatia, and S. Sinha

Expression of Fragile Sites in Patients with Retinoblastoma, their Parents and Unaffected Siblings: A Study of Ten Families 72
T.S. Sundareshan and M. Augustus

Absence of Trisomy 7 in Nonneoplastic Human Ascitic and Pleural Fluid Cells: An Interphase Cytogenetic Study 78
M.L. Larramendy, A. Björkqvist, L. Tammilehto, M. Taavitsainen, K. Mattson, and S. Knuutila

Trisomy 11 and Other Nonrandom Trisomies in Congenital Fibrosarcoma 82
R. Bernstein, P.M. Zeltzer, F. Lin, and P.M. Carpenter

Detection of Methylcytosine-Rich Heterochromatin on Banded Chromosomes: Application to Cells with Various Status of DNA Methylation 87
C. Montpellier, C.A. Bourgeois, N. Kokalj-Vokac, M. Muleris, A. Niveleau, C. Reynaud, A. Gibaud, B. Malfoy, and B. Dutrillaux

Deletion (5q) in a Desmoid Tumor of a Patient with Gardner's Syndrome 94
A. Dangel, A.M. Meloni, H.T. Lynch, and A.A. Sandberg

Short Communications

Chromosomal Abnormalities in the Lymphocytes of a Male Patient with Breast Cancer 99
A.M. Udayakumar and M. Krishna Bhargava

Cytogenetic Biclonality Corresponding to Multiphasic Differentiation in an Atypical Thyroid Adenoma 102
G. Belge, B. Thode, S. Bartnitzke, and J. Bullerdiek

A Single Clonal Abnormality of Chromosome 1 Found in an Adenocarcinoma of the Uterus 105
R.B. Deger, J.S. Noumoff, and S.A. Faruqi

Reassessment of an Apparent t(12;17)(p11;p11) as an Unbalanced t(17;21)(p11;q11) in a Case of B-Cell Chronic Lymphocytic Leukemia by Fluorescence In Situ Hybridization 108
M. Flactif, J.L. Laï, and P. Fenaux

Letter to the Editor

Isochromosome 17q- in Acute Promyelocytic Leukemia: Molecular Characterization by Fluorescence in Situ Hybridization 112
A. Aventín, M. Espadaler, G.A. Martín-Henao, and C. Mecucci

Contents continued on next page

Volume 78, Number 2, December 1994

Contents

Original Articles

Cytogenetics of Tumors of Soft Tissue and Bone: Implication for Pathology **115**
L.R. Donner

Cytogenetic Intratumor Heterogeneity in Soft Tissue Tumors **127**
C. Örndal, A. Rydholm, H. Willén, F. Mitelman, and N. Mandahl

Cytogenetic Analysis of Soft Tissue Sarcomas: Recurrent Chromosome Abnormalities in Malignant Peripheral Nerve Sheath Tumors (MPNST) **138**
S.C. Jhanwar, Q. Chen, F.P. Li, M.F. Brennan, and J.M. Woodruff

Amplification of Chromosome Subregion 12p11.2-p12.1 in a Metastasis of an I(12p)-Negative Seminoma: Relationship to Tumor Progression? **145**
R.F. Suijkerbuijk, R.J. Sinke, D.E.M. Olde Weghuis, L. Roque, A. Forus, F. Stellink, A. Siepman, C. van de Kaa, J. Soares, and A. Geurts Van Kessel

Complex Translocations of the Ph Chromosome and Ph Negative CML Arise from Similar Mechanisms, as Evidenced by FISH Analysis **153**
G. Calabrese, L. Stuppia, P. Guanciali Franchi, R. Peila, E. Morizio, A. Maria Liberati, A. Spadano, R. Di Lorenzo, E. Donti, A. Antonucci, and G. Palka

Chromosomal Disorder and Neoplastic Diseases in a Family with Inherited Fragile 16. Causality or Casualty? **160**
M.T. Ferro, J.M. Garcia-Sagredo, M. Resino, E. del Potro, A. Villegas, J. Mediavilla, D. Espinós, and C. San Román

The Protooncogene *CHOP/GADD153* Involved in Growth Arrest and DNA Damage Response, is Amplified in a Subset of Human Sarcomas **165**
A. Forus, V.A. Fløtenes, G.M. Maelandsmo, Ø. Fodstad, and O. Myklebost

Cytogenetic Studies in Endometriosis Tissue **172**
A. Dangel, M.T. Medchill, G. Davis, A.M. Meloni, and A.A. Sandberg

Cytogenetic and Growth Factor Gene Analysis of a Renal Carcinoma Cell Line **175**
I. Högemann, S. Bock, P. Heppner, and P.E. Petrides

A Factor Encoded by 7q31 Suppresses Expansion of the 7q- Clone and Delays Cytogenetic Progression **181**
B. Pedersen and J. Ellegaard

In Vitro Karyotype Evolution and Cytogenetic Instability in the Non-Tumorigenic Human Breast Epithelial Cell Line HMT-3522 **189**
K. Vang Nielsen, M. Winkel Madsen, and P. Briand

Karyotypic Changes in Phyllodes Tumors of the Breast **200**
C.U. Dietrich, N. Pandis, G. Bardi, M.R. Teixeira, T. Soukhikh, C. Petersson, J.A. Andersen, and S. Heim

Trisomy 5 in Long-Term Cultures from Bone Marrow of Patients with Solid Tumors **207**
Y.Y. Ozisik, R. Morgan, A. Peier, A.M. Meloni, and A.A. Sandberg

Cytogenetic Data in 41 Patients with Multiple Myeloma: Karyotype and Other Clinical Parameters **210**
J.C. Cigudosa, M.J. Calasanz, M.D. Odero, F. Prosper, A. Etxaniz, J. Marin, J. Rifón, A. Gullón, and E. Rocha

Pericentric Inversion (2)(p15q35) in an Alveolar Rhabdomyosarcoma **214**
J.R. Sawyer, F.G. Crussi, and M. Kletzel

Hematologic, Clinical and Cytogenetic Analysis in 109 Patients with Primary Myelodysplastic Syndrome. Prognostic Significance of Morphology and Chromosome Findings **219**
V. Parlier, G. van Melle, Ph. Beris, P.M. Schmidt, A. Tobler, E. Haller, and M. Jotterand Bellomo

New Discriminative Chromosomal Marker in Adipose Tissue Tumors: The Chromosome 8q11-13 Region in Lipoblastoma 232
P. Dal Cin, R. Sciot, I. De Wever, B. Van Damme, and H. Van Den Berghe

Short Communications

Translocation (X;8)(q2?6;q21.3) in a Case of Systemic Mastocytosis 236
Y. Zhang, B. Schlegelberger, K. Weber-Matthiesen, W. Grote, and H. Bartels

Interstitial 9q- Deletion in a Case of Acute Myeloid Leukemia-M2 Arising from a Granulocytic Sarcoma 239
J.H. Lunde and E.F. Allen

Letter to the Editor

On the "Keimversprengungs" Origin of Embryonic Tumors 242
F. Lampert

Author Index 243

Subject Index 248